

WHAT IS CLAIMED IS:

1. A process analytic system comprising:  
a sample handling system adapted to couple to a process analyzer, the sample handling system comprising:  
a sample probe for receiving a sample, the sample probe having a distal end for exposure to a sample stream, the sample probe including:  
an eductor inlet coupleable to a solvent source and coupled to an eductor disposed at the distal end;  
a sample collector coupled to the distal end of the probe opposite the eductor such that at least some solvent emitted by the eductor is collected by the collector, the collector being coupled to a sample and solvent outlet adapted to couple to a separation device;  
a separation device coupled to the sample and solvent outlet to remove the solvent from the sample stream; and  
at least one analyzer coupled to the separation device to receive that sample and provide an analytical output based upon the sample.

2. The system of claim 1, wherein the solvent is water.
3. The system of claim 1, wherein the solvent is steam.
4. The system of claim 1, wherein the probe is adapted to mount at an angle with respect to vertical.
5. The system of claim 1, wherein the angle is in excess of 90 degrees.
6. The system of claim 5, wherein the angle is about 120 degrees.
7. The system of claim 1, wherein the sample probe further includes an inlet and outlet for cooling fluid, wherein the cooling fluid flows within the probe to cool the probe.
8. The system of claim 7, and further comprising an internal cooling passageway coupled to the inlet and adapted to convey relatively cooler fluid to the distal end of the probe.
9. The system of claim 8, wherein the probe is a fluidically sealed enclosure and wherein the cooling

fluid outlet is disposed near a proximal end of the probe.

10. The system of claim 9, wherein the enclosure is cylindrically shaped.

11. The system of claim 1, wherein the sample stream is a low pressure sample stream having a pressure less than about 3 psig.

12. The system of claim 11, wherein the sample stream has atmospheric pressure.